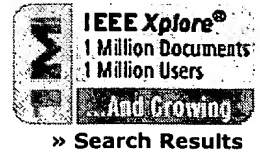




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**4 Comparing software prediction techniques using simulation**

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Software Engineering, IEEE Transactions on , Volume: 27 , Issue: 11 , Nov. 2001  
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[\[Abstract\]](#)   [\[PDF Full-Text \(294 KB\)\]](#)   IEEE JNL

**5 LDA/SVM driven nearest neighbor classification**

*Jing Peng; Heisterkamp, D.R.; Dai, H.K.;*

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**6 A hybrid approach to the profile creation and intrusion detection**

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**7 LDA/SVM driven nearest neighbor classification**

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#### 3 Validation of nearest neighbor classifiers

Bax, E.;

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**7 A quick evidential classification algorithm based on k-nearest neighbor rule**

*Zhuang Wang; Wei-Dong Hu; Wen-Xian Yu;*  
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**8 An improved line-based face recognition and indexing algorithm**

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**12 A supervised machine learning algorithm for arrhythmia analysis**

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**14 K-nearest neighbor and C4.5 algorithms as data mining methods: advantages and difficulties**

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On page(s): 2746 - 2752

Volume: 46 , Issue: 7

ISSN: 0018-9448

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CODEN: IETTAW

Inspec Accession Number: 6800229

### Abstract:

This article presents a method to bound the out-of-sample error rate of a **nearest neighbor** classifier. The bound is based only on the examples that comprise the classifier. Thus all available examples can be used in the classifier; no examples need to be withheld to compute error bounds. The estimate used in the bound is an extension of the holdout estimate. The difference in error rates between the holdout classifier and the classifier consisting of all available examples is estimated using truncated inclusion and exclusion

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[\[Abstract\]](#) [\[PDF Full-Text \(604KB\)\]](#) [IEE JNL](#)

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